5. The manufacturing equipment diagnosis support system according to claim **4**, wherein

the testing unit performs a statistical test between the feature of the data item which has been specified as the phenomenon candidate item of the first level by the unusual phenomenon specifying unit, and the feature of the other data item in the same group;

when such a null hypothesis that there is no significant difference therebetween of a predetermined significant level has been discarded, specifies the data item as the unusual phenomenon item of the first level; and

in the case where the data item is also the unusual phenomenon candidate item of the second level, when the data item in the other group common in the apparatus to be monitored also corresponds to the unusual phenomenon item of the first level, specifies the data item as the unusual phenomenon item of the second level.

6. The manufacturing equipment diagnosis support system according to claim **1**, wherein

the data analysis device changes a time period in a range of the analysis of the data by the data analysis range setting unit after a series of data analysis has been completed, and executes the series of the data analysis on the basis of the data in the changed range again.

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